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CLAIMS

1. A T1E1.4 compliant filter circuit used in telecommunication systems for interconnecting between incoming telephone lines and a subscriber's telephone termination equipment located at a subscriber's premises for blocking DSL signals so as to prevent interference problems between DSL devices and the subscriber's termination equipment, said compliant filter circuit comprising:

first and second inductors connected in series between a first input terminal and a first output terminal;

said first inductor having its one end connected to said first input terminal and its other end connected to one end of said second inductor at a first common point, said second inductor having its other end connected to said first output terminal;

third and fourth inductors connected in series between a second input terminal and a second output terminal;

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said third inductor having its one end connected to said second input terminal and its other end connected to one end of said fourth inductor at a second common point, said fourth inductor having its other end connected to said second output terminal;

a first capacitor having its one end connected to said first common point and its other end connected to said second common point;

a second capacitor having its one end connected to said first common point and its other end connected to said first output terminal; and

a third capacitor having its one end connected to said second common point and its other end connected to said second output terminal.

2. A T1E1.4 compliant filter circuit as claimed in Claim 1, wherein said first and third inductors have values on the order of $4.7~\mathrm{mH}$.

- 3. A T1E1.4 compliant filter circuit as claimed in Claim 2, wherein said second and fourth inductors have values on the order of $4.3~\mathrm{mH}$.
- 4. A T1E1.4 compliant filter circuit as claimed in Claim 3, wherein said first capacitor has a value on the order of 10 nF.
- 5. A T1E1.4 compliant filter circuit as claimed in Claim 4, wherein said second and third capacitors have values on the order of 10 nF.
- 6. A T1E1.4 compliant filter circuit as claimed in Claim 1, wherein said first inductor, second inductor and first capacitor function as a second-order low -pass filter section so as to block the DSL data signals from said termination equipment.
- 7. A T1E1.4 compliant filter circuit as claimed in Claim 6, wherein said second inductor, fourth inductor, second capacitor and third capacitor function as an

elliptical filter section so as to block the DSL data signals in a frequency band of 25-35 KHz.

- 8. A T1E1.4 compliant filter circuit as claimed in Claim 1, wherein said first through fourth inductors and said first through third capacitors are housed in a modular type design.
- 9. A T1E1.4 compliant filter circuit as claimed in Claim 8, wherein said modular design is capable of self-installation by a subscriber.

10. A T1E1.4 compliant filter circuit used in telecommunication systems for interconnecting between incoming telephone lines and a subscriber's telephone termination equipment located at a subscriber's premises for blocking DSL signals so as to prevent interference problems between DSL devices and the subscriber's termination equipment, said compliant filter circuit comprising:

a low-pass filter section formed of first and second inductors and a first capacitor;

said first inductor having a first end connected to a first input terminal and a second end;

said second inductor having a first end connected to a second input terminal and a second end;

said first capacitor having a first end connected to said second end of said first inductor and having a second end connected to said second end of said second inductor;

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an elliptical filter section formed of third and fourth inductors and second and third capacitors;

said third inductor and said second capacitor being connected in parallel and having their one end joined also to said second end of said first inductor and their other end joined to a first output terminal; and

said fourth inductor and said third capacitor being connected in parallel and having their one end joined also to said second end of said second inductor and their other end joined to a second output terminal.

- 11. A T1E1.4 compliant filter circuit as claimed in Claim 10, wherein said first and second inductors have values on the order of 4.7 mH.
- 12. A T1E1.4 compliant filter circuit as claimed in Claim 11, wherein said third and fourth inductors have values on the order of 4.3 mH.

- 13. A T1E1.4 compliant filter circuit as claimed in Claim 12, wherein said first capacitor has a value on the order of 10 nF.
- 14. A T1E1.4 compliant filter circuit as claimed in Claim 13, wherein said second and third capacitors have values on the order of 10 nF.
- 15. A T1E1.4 compliant filter circuit as claimed in Claim 10, wherein said first through fourth inductors and said first through third capacitors are housed in a modular type design.
- 16. A T1E1.4 compliant filter circuit as claimed in Claim 15, wherein said modular design is capable of self-installation by a subscriber.
- 17. A T1E1.4 compliant filter circuit as claimed in

 Claim 8, wherein said modular type design includes a

 first modular input line jack for connection to the

 incoming telephone lines and a second modular output

telephone jack for connection to the subscriber's termination equipment.

- 18. A T1E1.4 compliant filter circuit as claimed in Claim 17, wherein said modular type design further includes a third modular output DSL pass-through jack for connection to the DSL devices.
- 19. A T1E1.4 compliant filter circuit as claimed in
 15 Claim 15, wherein said modular type design includes a
 first modular input line jack for connection to the
 incoming telephone lines and a second modular output
 telephone jack for connection to the subscriber's
 termination equipment.
- 20. A T1E1.4 compliant filter circuit as claimed in Claim 19, wherein said modular type design further includes a third modular output DSL pass-through jack for connection to the DSL devices.